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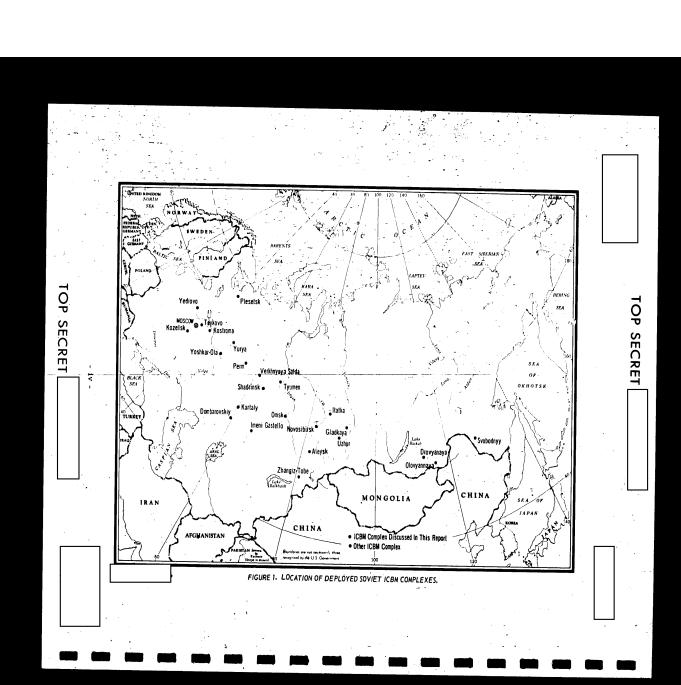
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PREFACE

In response to numerous and overlapping requirements, a comprehensive photographic analysis has been undertaken in an effort to identify communications facilities considered to be available for use by the Strategic Rocket Forces of the USSR. Because of the scope of the entire project, the time-consuming search and measurement factors involved, and the consequent multiplicity of effort, it was not feasible to make the results of the study available in a single publication.

The present report, therefore, concerned as it is with only ICBM-related communications, is but 1 of a series of approximately 4 publications, each of which covers a convenient subunit of the larger overall project. Already published is NPIC/R-795/64, New HF Communications Facilities at Soviet MRBM/IRBM Launch Areas, August 1964; presently being prepared for publication is another report extending MRBM/IRBM coverage. A final report is anticipated to cover possibly related communications available in the Moscow area.

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ÌNTRODUCTION	was noted approximately 10 nm from the complex support facility of the Kostroma
An analysis has been made of the most cent and best photography of all known in the USSR in an effort to identify high-frequency (HF) communications microwave facilities of the Soviet Strate Rocket Forces. Where no communications c	facilities around the city of Novosibirsk (Figure 12 and Table 3). These facilities and are included in this study, however, only be- cause they fall within the search areathey
be identified within the general limits of the coplex itself, a further search of a 50-nautic mile (nm) surrounding area was undertak Of the 24 deployed Soviet ICBM complex known to exist as of	to the ICBM complexes. No HF or microwave communications could be identified at or within 50 nm of the remaining complexes.
the results of this study have revealed: 1. Communications Facilities at IC Complexes. A total of 6 complexes Drovyanaya, Olovyannaya, Svobodnyy, men, Verkhnyaya Salda, and Yoshkar-Ol contained identifiable HF communicati (Figures 2-7 and Table 1). Because of the	types, numbers, orientations, and possible correspondents have been determined. The antenna azimuths are accurate Size measurements are only approximate and cannot be given in many cases because pole positions could not be observed. It should 25X1
nitely associated with their respective coplex. 2. Possible Communications Facilities ICBM Complexes. Two other ICBM coplexes, Kozelsk and Yedrovo, contained public communications facilities (Figure 3. Communications Facilities Within	are listedthese having been derived solely by extending great circles from each identified an- ties tenna, with consideration given, however, to probable range limits of the particular antenna type and the possible azimuth error. These great-circle projections are illustrated in Fig- ures 13 and 14.
nm of ICBM Complexes. At Tyumen ar other ICBM complexes, ** Novosibirsk Shadrinsk, HF communications facility were situated near the complex area but in such proximity as to appear definitely sociated. (Figures 9 - 11 and Table 4. Other, Probably Unassociated, Communications Within 50 nm of ICBM Communications Within 50 nm of ICBM Communications Within 50 nm of ICBM Communications	of the 6 facilities covered in this section, 5 contain predominantly fishbone-type receiving antennas while the sixth has only horizontal dipole antennas. A typical HF communications facility at an ICBM complex consists of from 2

*An additional facility, located at the Yurya ICBM Complex and identified on photography, is described in an addenda to this report.

plexes. A possible communications facility

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Of the 6 facilities covered in this section, 5 contain predominantly fishbone-type receiving antennas while the sixth has only horizontal dipole antennas. A typical HF communications facility at an ICBM complex consists of from 2 to 5 fishbone receiving antennas and 1 or 2 horizontal dipole antennas. Each of the communications facilities is situated within the ICBM complex area, generally a short distance from the complex support facility from which it probably receives its support since there are no significant support facilities within the communications facility itself.

The fishbone antennas, in many instances, appear to be paired—that is, 2 antennas are oriented in 1 direction, 2 more in another direction, etc. Comparison of the length of the fishbones shows it to be relatively greater as the distance from the Moscow-Leningrad area is increased, which is consistent with antenna engineering design requirements.

Yoshkar-Ola, the single fadility containing only horizontal dipole antennas, is much nearer to Moscow than the other facilities, which may account for the presence of only this relatively short-range type antenna.

No rhombic antennas are found at any of these facilities, indicating either that, if present, this type of antenna is older and cannot be seen because of vegetation growth or that, if not present, there exists no capability for long-range HF transmitting directly from the ICBM complex.

For each of the facilities in this section, there is a brief description together with a photograph and a line drawing. Pertinent data on the individual antennas, including orientation, has been collected in Table 1. The great-circle projections of the antennas are illustrated in Figure 13.

DROVYANAYA ICBM COMPLEX COMMUNICATIONS FACILITY

An HF communications facility (Figure 2) is situated approximately 1.5 nm east-southeast of the complex support facility of the Drovyanava ICBM Complex, and generally to the north of the individual launch areas. The facility, which is relatively new, contains 2 HF fishbone receiving antennas (items 1 and 2), each having 5 rows of pole positions, and a control building and guardhouse. As discussed earlier in this report, the 2 antennas are paired, i.e., their size and orientation is similar. Most of the pole and guy-anchor positions of the antennas can be seen on the photography, but no pole shadows are visible. (The only facility where actual pole shadows can be observed is the one at Verkhnyaya Salda, for which good-quality large-scale photography is available.)

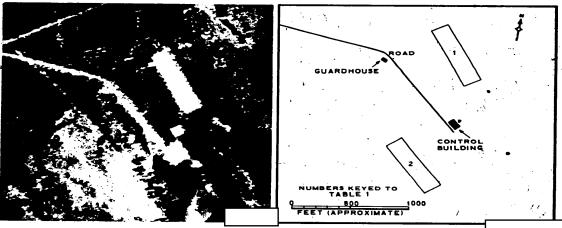


FIGURE 2. DROVYANAYA ICBM COMPLEX COMMUNICATIONS FACILITY.

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OLOYYANNAYA ICBM COMPLEX COMMUNICATIONS FACILITY

An HF communications facility (Figure 3) is situated approximately 2.5 nm north of the complex support facility of the Olovyannaya ICBM Complex, and generally to the south of the individual launch areas. The fence-secured facility contains 4 HF fishbone receiving antennas (items 1 to 4), a horizontal dipole antenna (item 5), and a possible antenna of an unidentified type

(item 6). A small control/support area includes a single control building and several construction/support buildings.

The fishbone antennas have 5 rows of pole positions each and are still under construction; 2 of the 4 are paired (items 1 and 2). The possible antenna is not distinct enough on the available photography for azimuthal or other measurements.

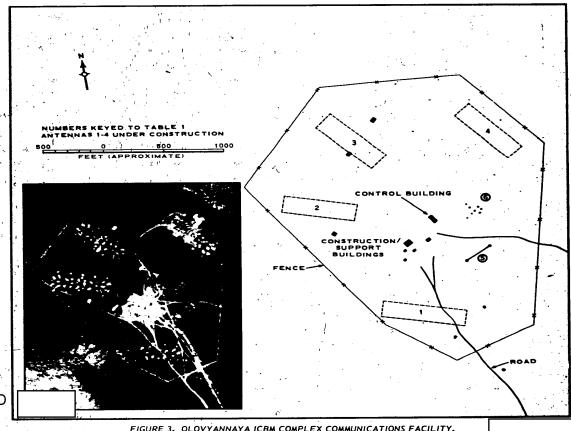


FIGURE 3. OLOVYANNAYA ICBM COMPLEX COMMUNICATIONS FACILITY.

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SYCBODNYY ICBM COMPLEX COMMUNICATIONS FACILITY

An HF communications facility (Figure 4) is situated approximately 2.5 nm north-northeast of the complex support facility of the Svobodnyy ICBM Complex and is generally centered among the individual launch areas. The fence-enclosed facility has an antenna field containing 5 HF fishbone receiving antennas (items 1 to 5), a horizontal dipole antenna (item 6), and a possible antenna of unidentified type (item 7). A control area contains a single control building and 2 other small buildings; on the photography of 4 probable vehicles were observed in this area. In addition, there is a guard shack at the entrance and a probable con-

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struction building at the end of antenna No 1.

Size measurements for the fishbones were very difficult to determine as the antennas are still under construction and the guy anchors and pole positions are very indistinct. However, 4 of these antennas appear to be approximately the same size as those at the Olovyannaya and Drovyanaya facilities, and their orientations indicate that they constitute 2 pairs. The fifth fishbone appears shorter than the others and is probably intended for receiving from a correspondingly lesser distance. The orientation of the horizontal dipole is the same as that of the small fishbone. The possible antenna is very indistinct on the available photography and no azimu hal or other measurements could be obtained.



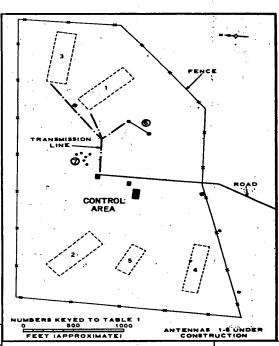


FIGURE 4. SVOBODNYY ICBM COMPLEX COMMUNICATIONS FACILITY.

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TYUMEN ICOM COMPLEX COMMUNICATIONS FACILITY

An HF communications facility (Figure 5) is situated 2 nm west of Bogandinskaya and adjacent to the unidentified facility just north of the complex support facility of the Tyumen ICBM Complex. The facility contains 2 paired HF fishbone receiving antennas (items 1 and 2), a horizontal dipole antenna (item 3), and a possible antenna of an unidentified type (item 4). A probable future

control area contains no buildings as yet but has been partially cleared and some footings may be present.

The fishbones, which have an apparent 2-2-2 configuration, are relatively short, indicating a receiving-distance capability less than that of the fishbones at Svobodnyy, Drovyanaya, and Olovyannaya. No meaningful azimuthal or other measurements could be obtained for the possible antenna on available photography.

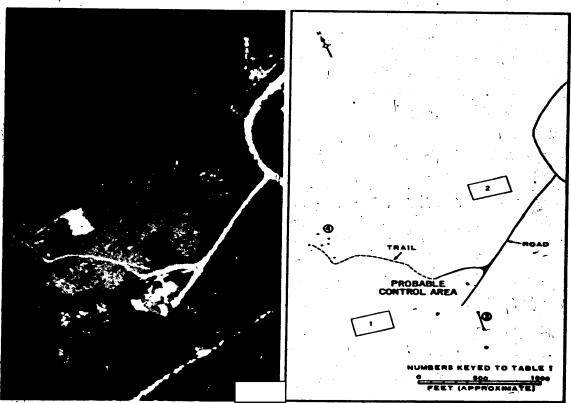


FIGURE 5. TYUMEN ICBM COMPLEX COMMUNICATIONS FACILITY.

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VERKHNYAYA SALDA ICBM COMPLEX COMMUNICATIONS FACILITY

An HF communications facility (Figure 6) is situated 8 nm north-northeast of Verkhnyaya Salda at the auxiliary support facility of the ICBM complex. The facility consists of a pair of fishbone receiving antennas (items 1 and 2),5-3-3-5 configuration, and a control/support area. As mentioned previously, the shadows of the antenna

poles can be seen at this facility because of the large scale and good quality of the photography. The control/support area contains 6 large buildings, 1 of which is a probable control building, and 2 smaller buildings/structures. A possible transmission line extends from 1 of the fishbones to the probable control building, adjacent to which are 2 or 3 possible communications masts of no identifiable configuration (item 3).

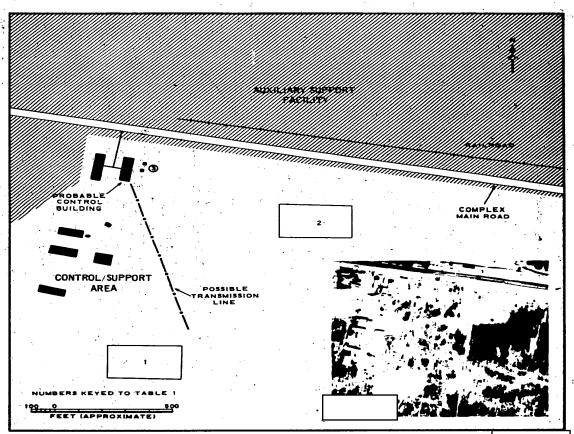


FIGURE 6. VERKHNYAYA SALDA ICBM COMPLEX COMMUNICATIONS FACILITY.

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YOSHKAR-OLA ICBM COMPLEX COMMUNICATIONS FACILITY

An HF communications facility (Figure 7) is situated approximately 2 nm northeast of the complex support facility of the Yoshkar-Ola ICBM Complex, and generally to the west of the individual launch areas. This facility differs markedly from the previous 5 communications facilities in that it contains no identifiable fishbone antennas; instead, there are 3 probable

horizontal dipole antennas (items 1 to 3) and 1 possible horizontal dipole antenna (item 4). The control area is indistinct but appears to contain a single building and 2 small unidentified objects. Neither antenna poles nor guyanchor positions are clearly discernible on the available photography, the presence of the antennas being inferred by the patterns cut in the vegetation.

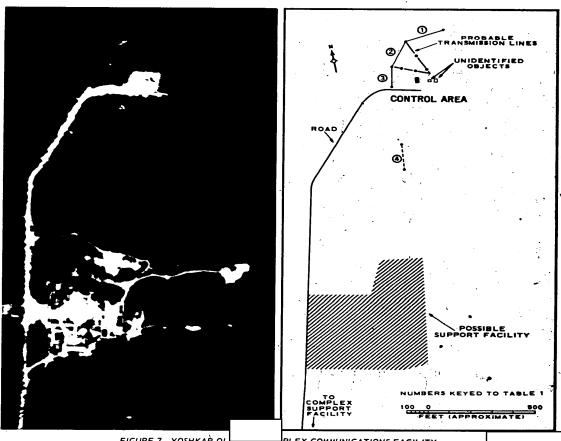


FIGURE 7. YOSHKAR-OL PLEX COMMUNICATIONS FACILITY.

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Table 1. IIF Communications Facilities at ICHM Complexes Location Antennas Distance from Complex Support Facility Item Number (keyed to appropriate figure) Width (ft, Associated ICBM Complex Possible Correspondents (see Figure 13) Туре nm, appro Fishbone Fishbone 650 625 625 ... 205 ... Salekhard, Arkhangelsk areas Salekhard, Arkhangelsk areas Karaganda, Tyuratam, Baku areas Karaganda, Tyuratam, Baku areas Leningrad area Salekhard, Arkhangelsk areas Kironsk area 50-52-30N 115-49-00E 190 190 170 ... 25X1D Kironck area
Mosecon area
Mosecon area
Mosecon area
Drovyanaya ICBM Complex,
Alma-Mt areara-Komsomolsk area
Drovyanaya ICBM Complex,
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Bratak, Krasnoyarak (Gladkaya ICBM Complex
Novomblirik area-N Sakhalin Je
S Sakhalin Je 170 51-48-20N 128-10-00E 2.5 NNE NA 220 Fishbone Fishbone Dipole 315 315 130 195 195 NA Moscow area Moscow area Yoshkar-Ola ICBM Complex area Novosibirsk ICBM Complex area Tyumen 15 NE (at auxiliary support facility) 170 170 2 NE Kuybyshev, Guryev areas Undetermined Yedrovo ICBM Complex area Moscow area Yoshkar-Ola

*Map reference is to US Air Target Chart, Series 200 (scale 1:200,000).

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	TOP SECRET	25X1 25X1
3 25X1D	POSSIBLE COMMUNICATIONS FACILITIES AT ICBM COMPLEXES In addition to the 6 facilities already described, there are possible communications facilities at 2 other ICBM complexes, Kozelsk and Yedrovo (Figure 8). Kozelsk ICBM Complex Possible Microwave Tower.	Although no microwave dishes, reflectors, or horn-and-lens equipment can be seen, the scale of the photography precludes the complete discounting of their presence. Yedrovo ICBMComplex Possible Communications Facility. Map: DIA. US Air Target Chart, Series 200,
	Map: DIA. US Air Target Chart, Series 200, Sheet 0167-14HL, 2d ed, Nov 63, scale 1:200,000 (S) The only possible communications-related facility that could be identified at the Kozelsk ICBM Complex is a possible microwave tower of the self-supporting lattice type situated in a clearing at 53-57-00N 35-48-30E, immediately west-northwest of the complex support facility.	Sheet 0154-11HL, 3d ed, Nov 63, scale 1:200,000 (S) This possible facility is at 57-49-30N 33-43-40E, 2.5 nm southeast of the complex support facility of the Yedrovo ICBM Complex. It consists of a probable antenna field (no antennas are identifiable), a centrally located probable control building, and a small support area containing 5 buildings and 3 unidentified objects.
		PROBABLE ANTENNA FELD PROBABLE CONTROL BUILDING UNIDENTIFIED OBJECTS 25X1D
-	FIGURE 8. POSSIBLE COMMUNICATIONS FACILITIE	· · · · · · · · · · · · · · · · · · ·
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COMMUNICATIONS FACILITIES WITHIN 50 NM OF ICBM COMPLEXES

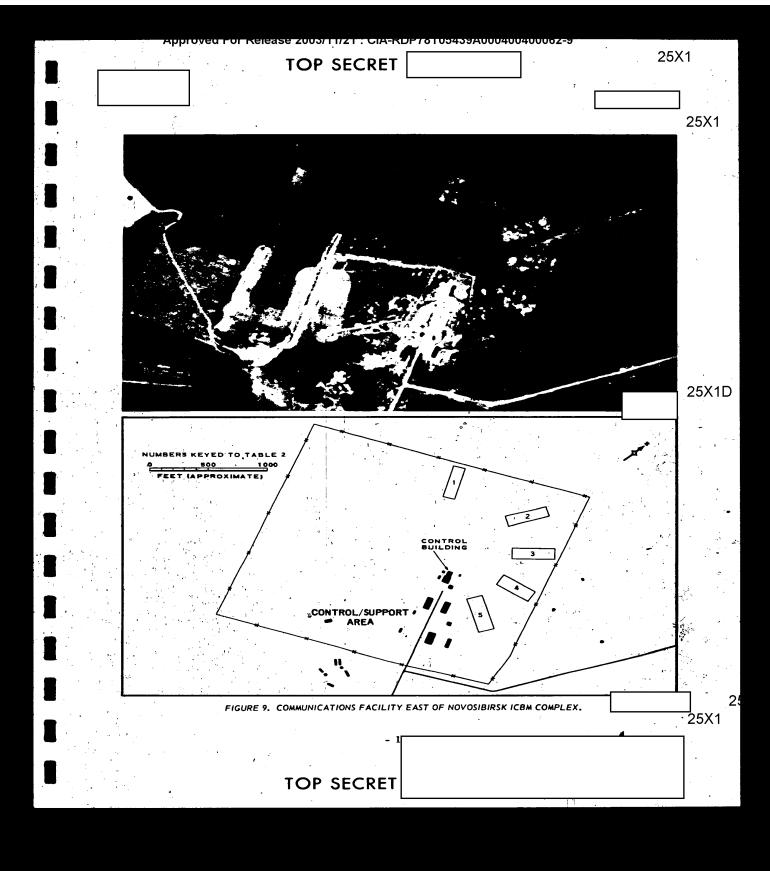
At 3 ICBM complexes,* Novosibirsk, Shadrinsk, and Tyumen (which also has an HF communications facility, previously described, within the general area of the complex), communications facilities have been identified within a relatively short distance of the complex but still far enough away so that it is not possible to definitely associate them with the complex. These 3 facilities are not particularly similar to the 6 ICBM complex facilities that have already been covered. For example, 2 of these 3 facilities contain primarily rhombic antennas, a type not found at the other 6. Also, although the third facility does contain HF fishbone antennas, these are all individually oriented (i.e., not paired) and, a further difference, there are no identifiable horizontal dipoles present. Nevertheless, these 3 facilities have sufficient possible relevance so that a brief description, line drawing, and photograph of each is included in

*An additional facility, located near the Itatka ICBM Complex and detected on ______photography, is described in an addenda to this report.

this report. In addition, Table 2 lists the orientations, possible correspondents, and obtainable measurements for each antenna, and Figure 14 shows the great-circle projections.

Communications Facility East of the Novosibirsk ICBM Complex

An HF communications receiving facility (Figure 9) is situated 18 nm northeast of Novosibirsk and 9.5 nm east of the complex support facility of the Novosibirsk ICBM Complex. This fence-secured facility consists of 5 fishbone receiving antennas (items 1 to 5) and a control/support area. As noted above, the fishbones at this facility are not paired, a common practice at many of the other facilities, but are individually oriented instead. These antennas are indistinct on the available photography, so that the measurement of their lengths and widths is very approximate. The control/support area contains 5 large buildings (including a control building) and 8 small buildings. An additional small group of buildings is immediately adjacent to and outside of the southeastern fence



Communications Facility West of the Shadrinsk ICBM Complex

An HF communications facility (Figure 10) is situated 6.5 nm east-southeast of Dalmatovo and 19.5 nm west-northwest of the complex support facility of the Shadrinsk ICBM Complex. Antennas at the facility include 2 double rhombics arranged as a day-night pair (items 1 and 2) and a row of probable HF horizontal dipoles (item 3),

the exact number of which cannot be determined

on the available photography. Two possible antennas of an unidentified type (items 4 and 5) are situated near the rhombics, but no meaningful measurements are possible for these. In addition to the antennas, the facility contains a centrally located control building and a small support area with at least 2 buildings and clearings for possible additional construction:

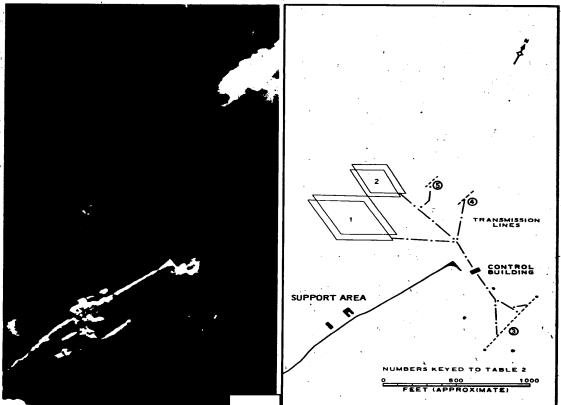


FIGURE 10. COMMUNICATIONS FACILITY WEST OF SHADRINSK ICBM COMPLEX.

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Communications facility North of the Tyumen ICBM Complex

An HF communications facility (Figure 11) is 8 nm southeast of Tyumen and 13 nm northnorthwest of the complex support facility of the Tyumen ICBM Complex. The fence-enclosed facility contains 2 double day and 2 double night

HF rhombic antennas (items 1 to 4), all of which appear to be oriented to the same azimuth. In , addition, 3 horizontal dipole antennas (items 5 and 6) can be identified by their pole and guyanchor positions. The facility also contains a small tower of unidentified function (item 7) and a single control building.

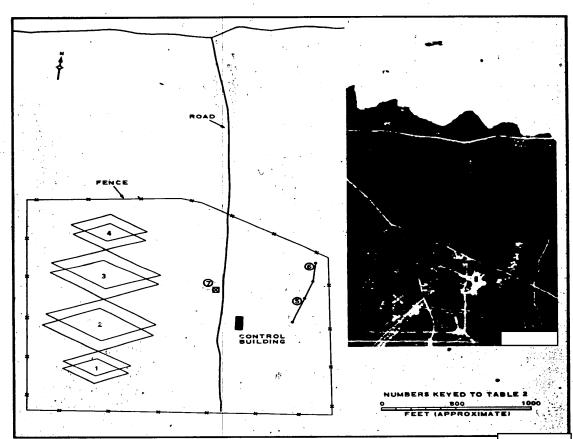


FIGURE 11. COMMUNICATIONS FACILITY NORTH OF TYUMEN ICBM COMPLEX.

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Location

Distance from Complex Support Facility (nm, approx)

Neurost ICBN Complex

Tyumen

Item Number (keyed to appropriate figure)

55-14-30N 83-18-00E

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OTHER, PROBABLY UNASSOCIATED, COMMUNICATIONS FACILITIES WITHIN 50 NM OF ICBM COMPLEXES

Novosibirsk Area Communications Facilities. A search of the area in and around Novosibirsk revealed, in addition to the fishbone communications facility described in the preceeding section, a number of other definite or possible communications facilities, most of which have been known for a number of years.1/ No association can be established through photographic analysis between these facilities and the Novosibirsk ICBMComplex. For this reason, individual descriptions or illustrations are omitted and brief mention of the facilities is included in this study only because they happen to fall within the scope of the request and because no specifically related communications facilities could be identified at the Novosibirsk ICBM Complex.

Figure 12 locates these facilities and Table 3 gives a summary listing of them, indicating the number, type, and orientation of their antennas as noted on recent small-scale photography of the area. No attempt has been made to determine individual antenna correspondents or to develop other detailed technical information.

Kostroma Area Possible Communications Facility.

Map: DIA. US Air Target Chart, Series 200, Sheet 0154-14HL, 3d ed, Apr 63, scale 1:200,000

A possible communications facility (not illustrated) was noted at 57-44-00N 41-01-30E, 3.5 nm southeast of Kostroma and 10 nm southwest of the complex support facility of the Kostroma ICBM Complex. It is included in this study only because, as in the case of Novosibirsk, no communications could be identified at

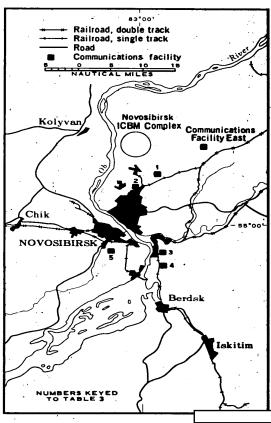


FIGURE 12. LOCATION OF NOVOSIBIRSK AREA COMMUNICATIONS FACILITIES.

the complex itself.

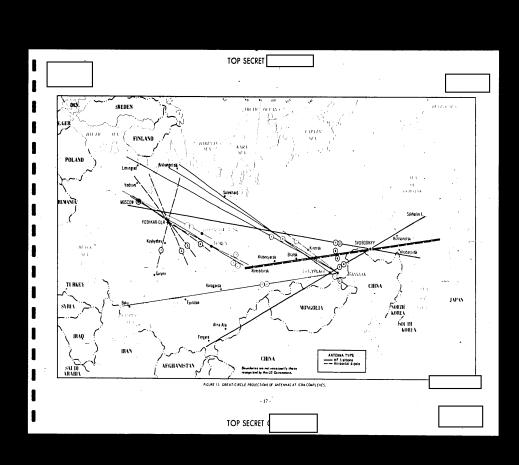
The possible facility is indistinct on the available photography. However, it appears to contain a possible horizontal dipole antenna, indicated by pole and guy-anchor positions. This single possible antenna is approximately 155 feet long and is probably oriented on an azimuth of

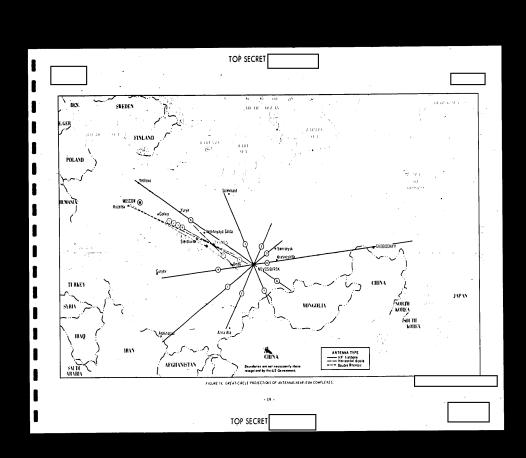
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25X1 Table 3. Additional Communications Facilities in the Novosibirsk Area (Item numbers keyed to Figure 12) Distance Photographic Number and Antenna Item Number Coordinates*
era/ X - Y Type of Antennas Orientation Description from Novosibirsk Camera/ (nm, approx) Frame Undetermined 10 NE Possible communications 1 (scattered apparent guyfacility anchor positions) TOP SECRET 4 double night Communications 6 NNE rhombics 6 double day 25X1D facility rhombics 4 prob double SECRET night rhombics 1 prob double day rhombic 1 prob single rhombic ,25X1 . 16 -1 prob horizon-tal dipole 1 prob V 1 fishbone (L-630', W-185') Communications 9 SE facility Undetermined (no masts or 10 SE communications guy-anchor facility positions visible) 1 day-night
HF serpentine
curtain array
3 prob V 7 S Communications/ directional broadcast facility 25X1D **Details on this array can be obtained from Reference 1. 25X1D 25X1





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	Complex.	ontains 4 HF horizontal dipole		tka ICBM Comple y contains 2HF rl		26
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